From: Strynar, Mark [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP

(FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=5A9910D5B38E471497BD875FD329A20A-STRYNAR, MARK]

Sent: 5/30/2018 5:04:10 PM

To: Lindstrom, Andrew [/o=ExchangeLabs/ou=Exchange Administrative Group

(FYDIBOHF23SPDLT)/cn=Recipients/cn=04bf7cf26aa44ce29763fbc1c1b2338e-Lindstrom, Andrew]; McCord, James

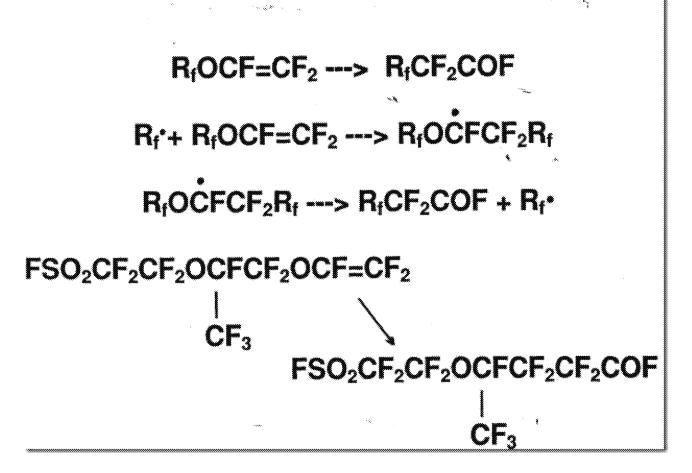
[/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=McCord, James]

Subject: FW: Mechanism of Rearrangement

Some more FYI.

Mark

From: Paul [mailto: Ex. 6 Personal Privacy (PP) Sent: Wednesday, May 30, 2018 10:42 AM To: Strynar, Mark < Strynar. Mark@epa.gov> Subject: Mechanism of Rearrangement



Here is an old slide showing the radical rearrangement of vinyl ethers. Line 1 is the general reaction of vinyl ethers.

1. R_f is a fluorocarbon chain. For PPVE it is CF₃CF₂CF₂ The example in lines 4&5 shows the Nafion monomer rearranging to an isomeric acid fluoride.

- 3. There are a number of other reactions of fluorinated ethers in which a free radical generated next to the ether oxygen results in a similar "beta" oxygen cleavage. No need to go into them now.